**FIGURE 1A**

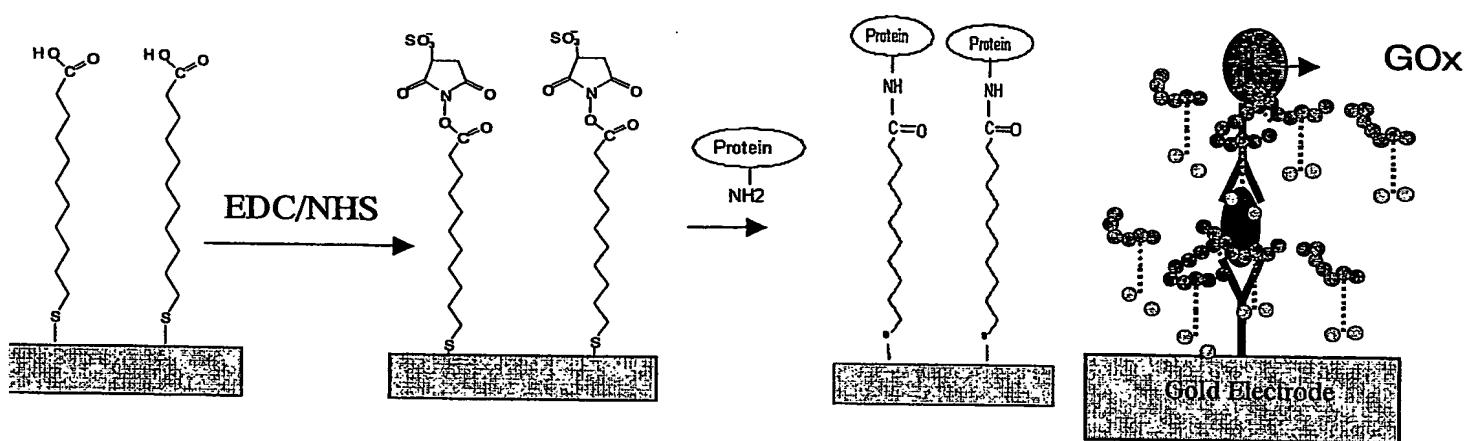
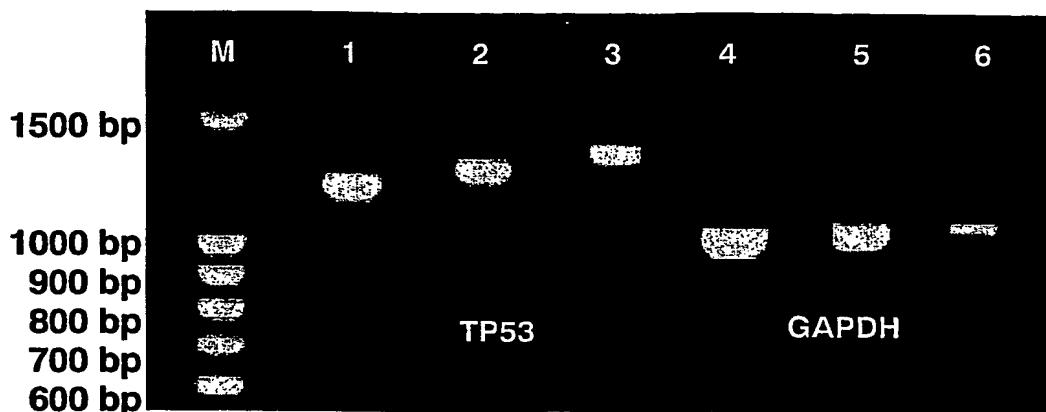
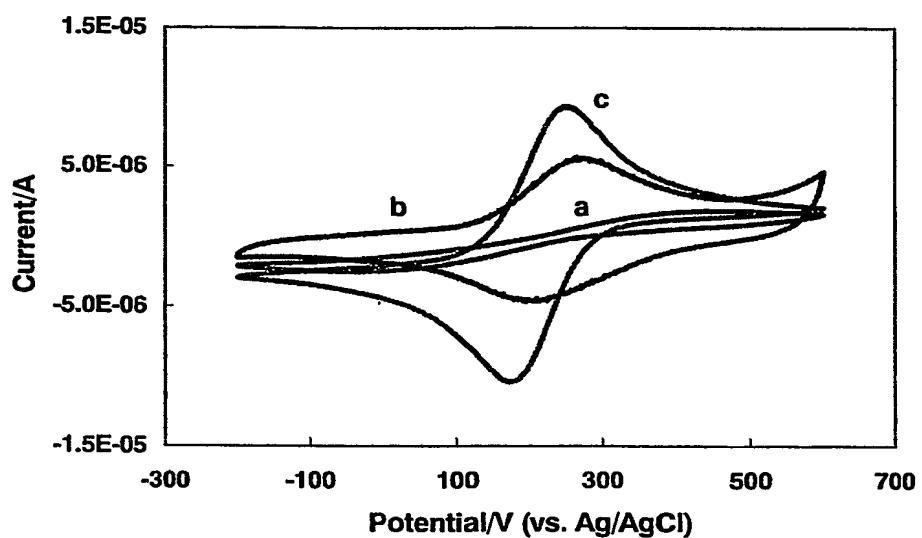


FIGURE 1B

**FIGURE 2****FIGURE 3**

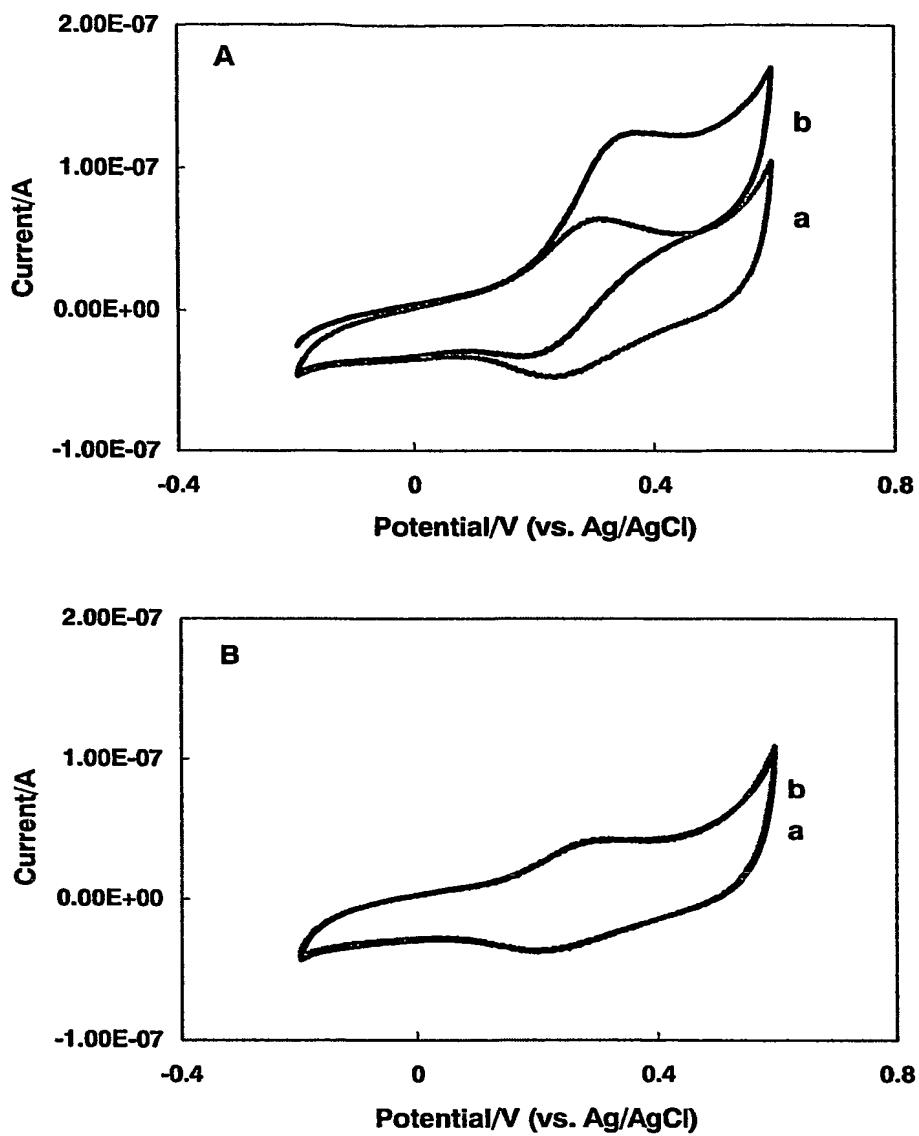


Figure 4

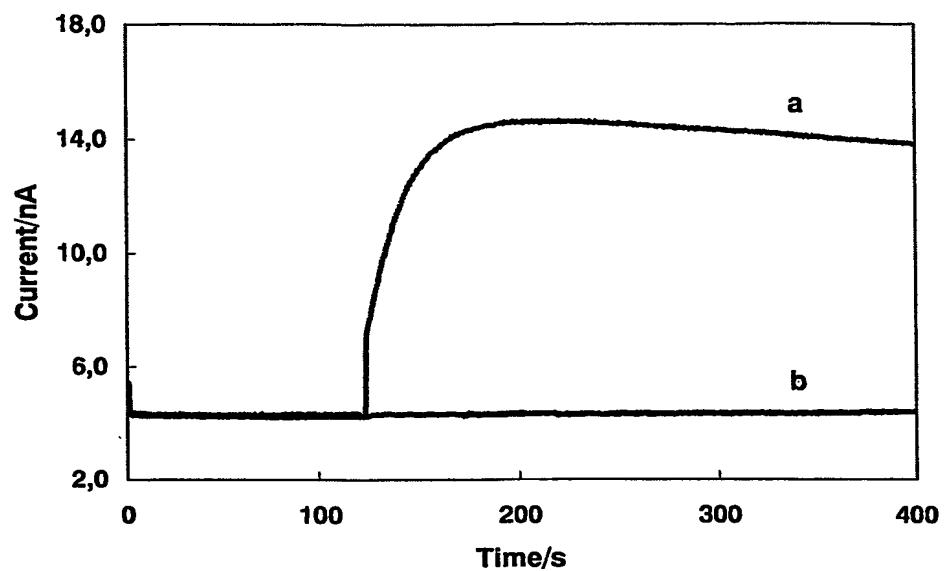
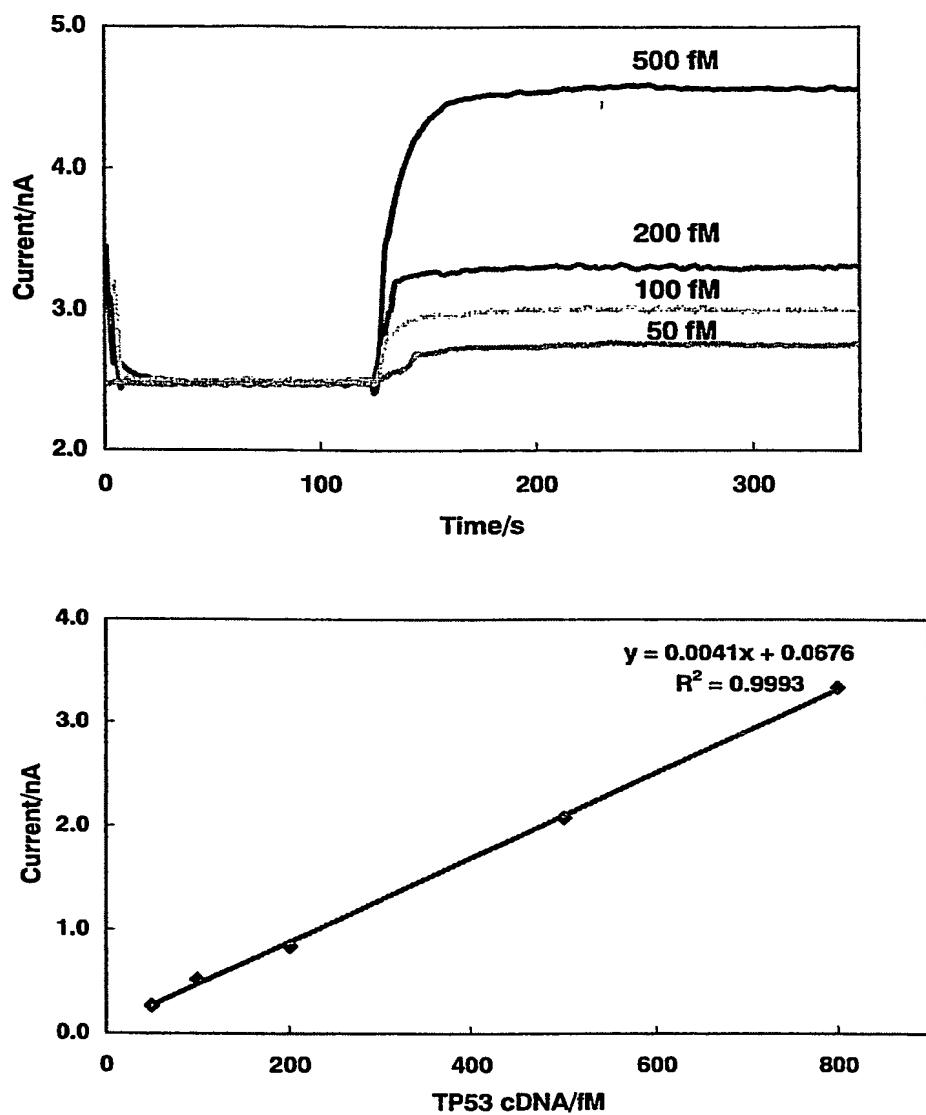
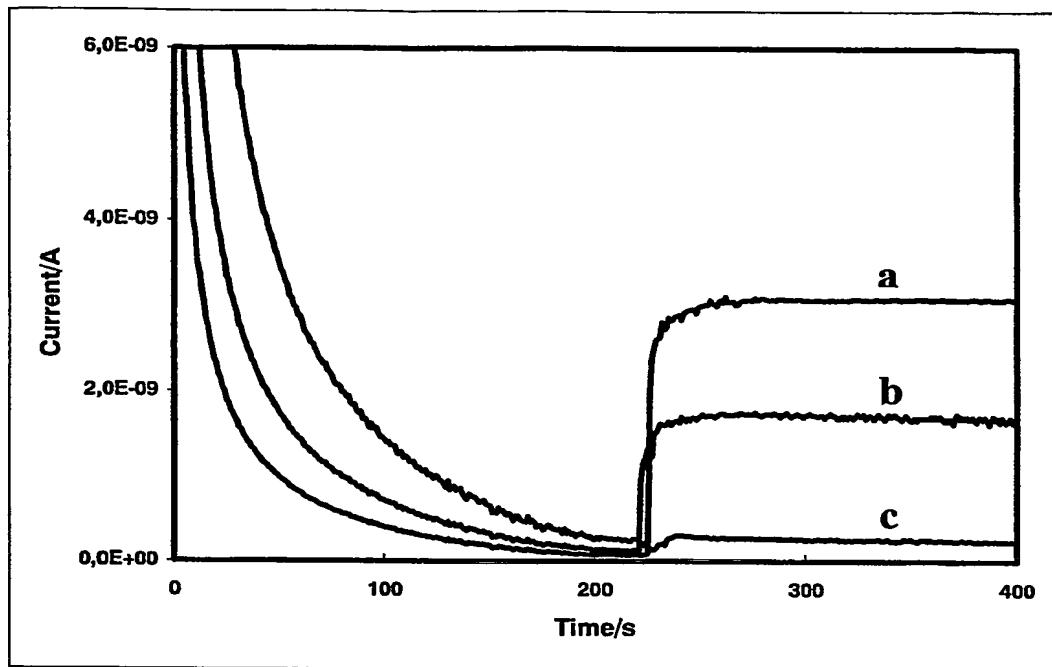
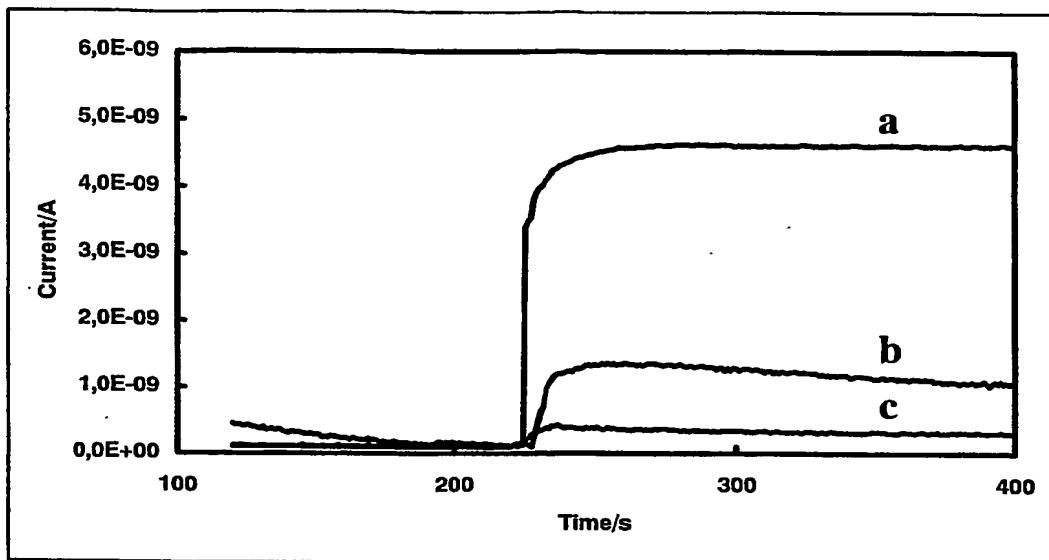


Figure 5

**FIGURE 6**

**FIGURE 7**

**FIGURE 8**

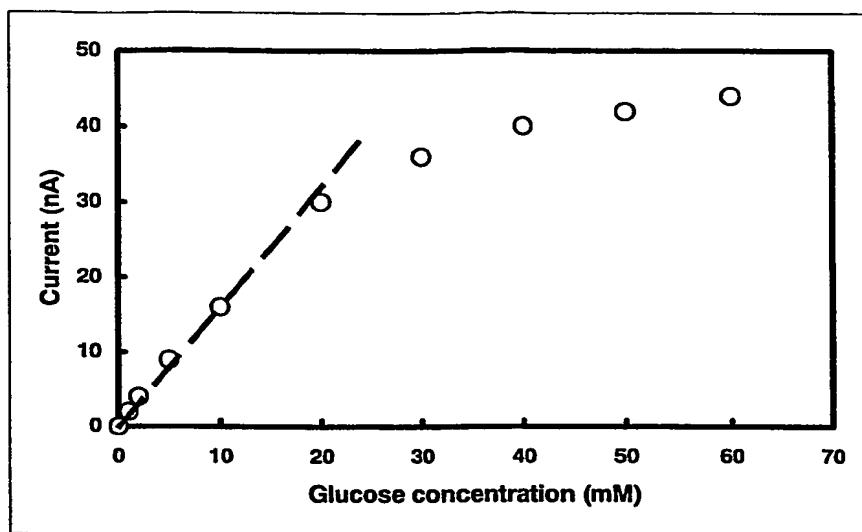


FIGURE 9

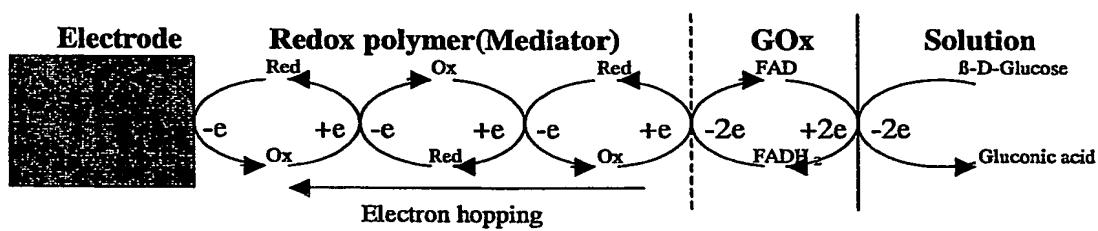
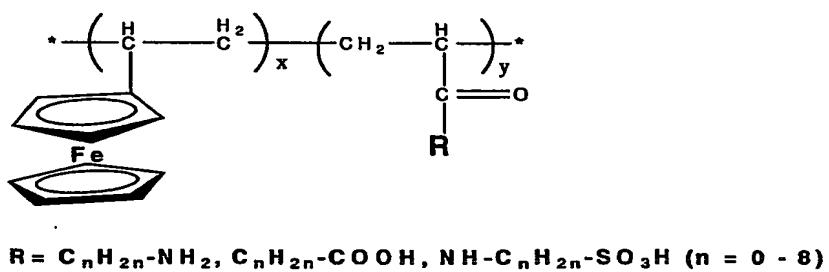


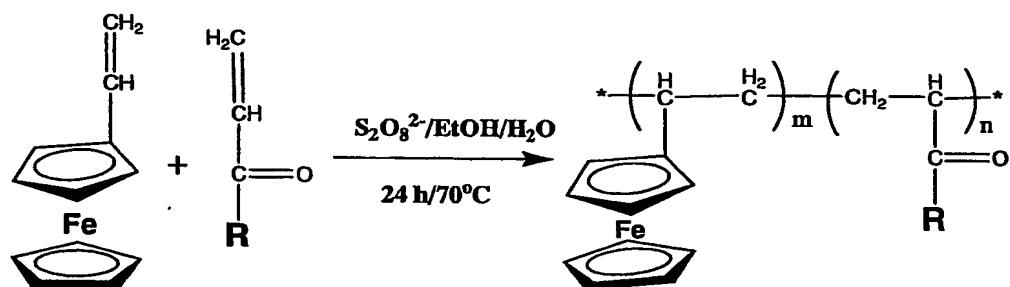
Illustration of redox polymer mediated bio-sensing process.

FIGURE 10



Structure of water-soluble and cross-linkable ferrocenyl redox polymer.

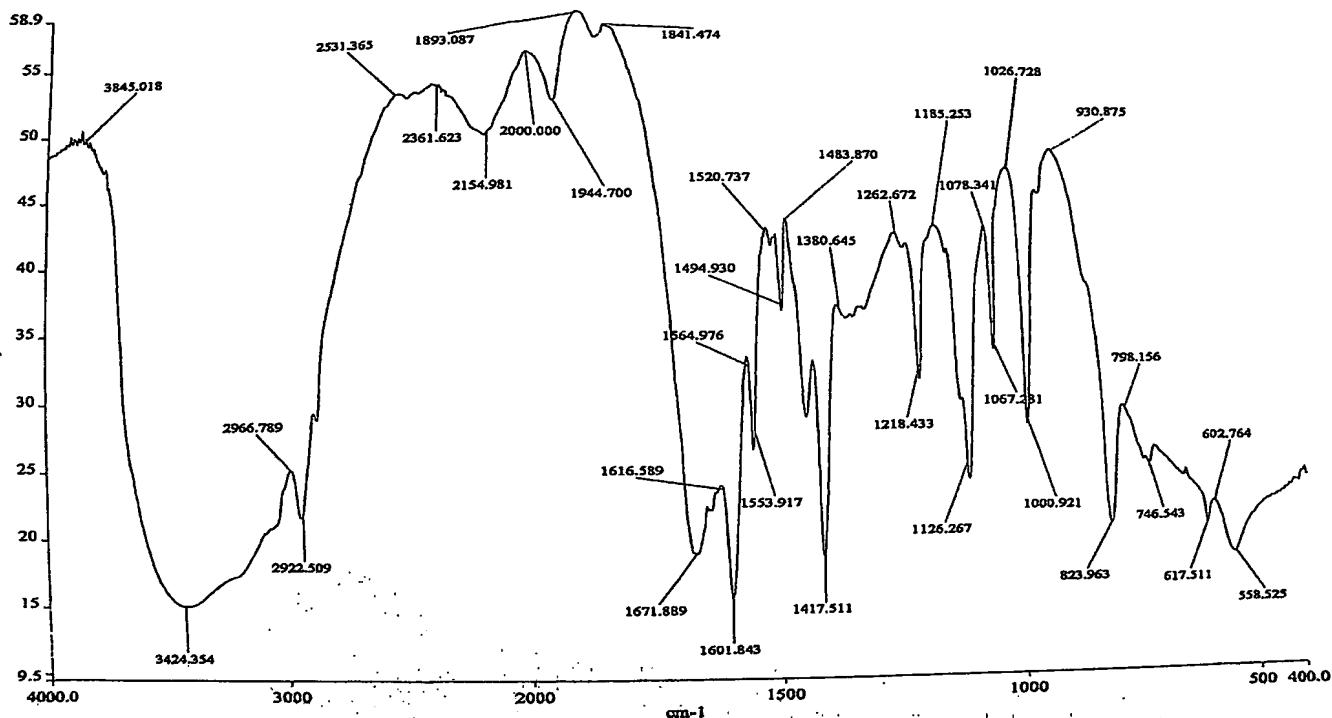
FIGURE 11



R = C_nH_{2n}-NH₂, C_nH_{2n}-COOH, NH-C_nH_{2n}-SO₃H (n = 0 - 8)

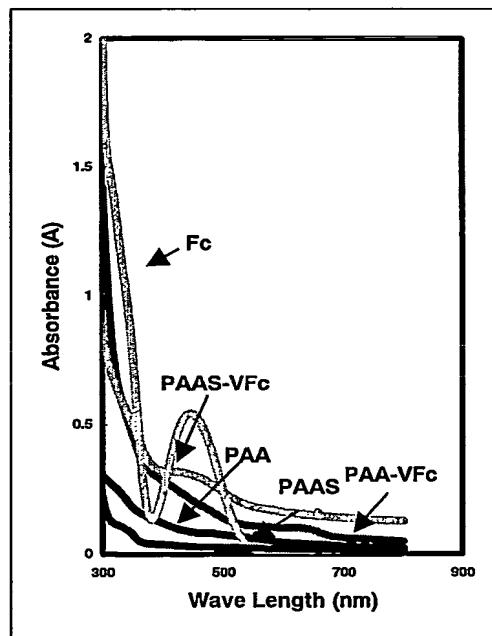
Polymerization mechanism of the redox polymer.

FIGURE 12



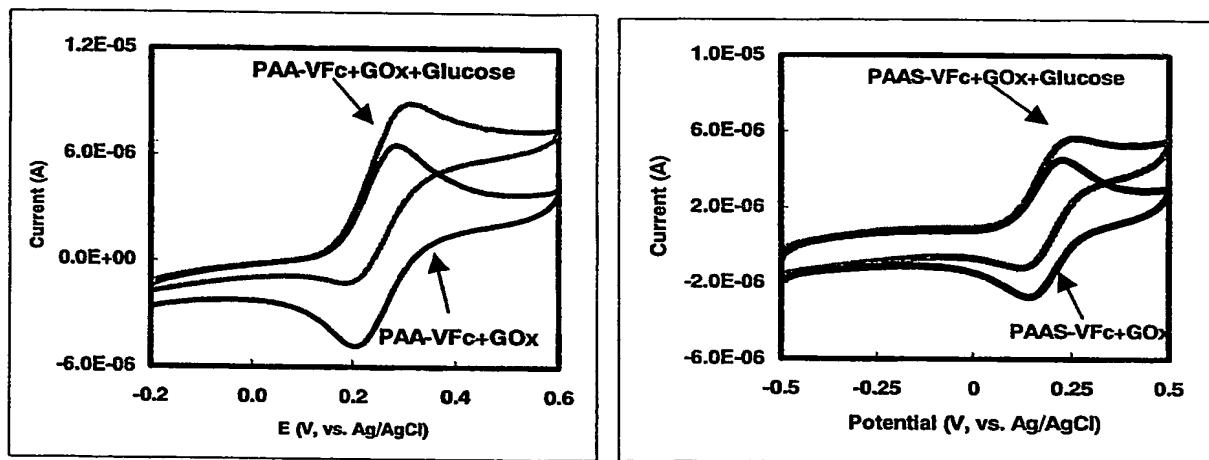
FT-IR Spectrum of PAA-VFc and PAAS-VFc redox polymer

FIGURE 13



UV-visible spectra of Fc, PAA, PAAS and their VFc co-polymers.

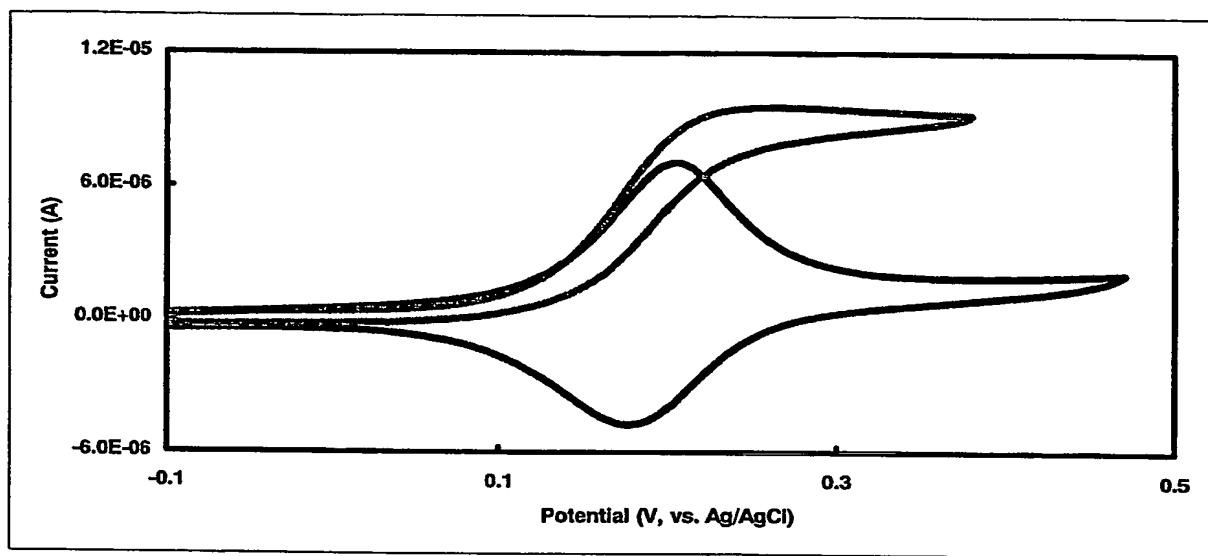
FIGURE 14



Cyclic voltammograms of redox polymers in various systems.

Phosphate-buffered saline, potential scan rate = 100 mV/s

FIGURE 15



Cyclic voltammogram of cross-linked PAA-VFc-GOx-BSA film on gold electrode.
PBS, potential scan rate 50 mV/s

FIGURE 16

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